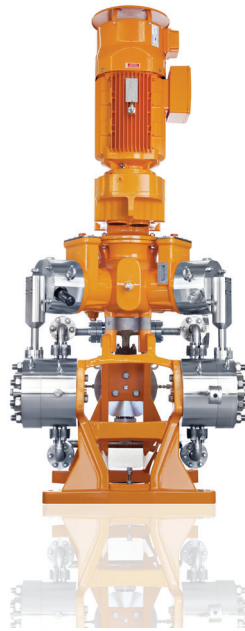


Process Hydraulic Diaphragm Metering Pump Zentriplex API 674

The innovative process metering pump with the ideal dimensions and excellent efficiency

ProMinent®



Capacity range 424 – 8,000 l/h, 367 – 36 bar

The Zentriplex is an oscillating process diaphragm metering pump, which has a very small footprint thanks to its unconventional design, as the pump and drive unit are mounted above each other to save space. Diaphragm dosing heads and hydraulic units are arranged in a star pattern around the drive unit, resulting in minimised loads and significantly lower material and drive requirements.

Your benefits

Excellent conservation of resources:

- Excellent energy efficiency.
- Diaphragm replacement without dismantling the suction and discharge lines ensures cost-effective maintenance of the pump.
- Low noise emissions.
- Very quiet thanks to complete balancing of masses.
- Only one connection required by the customer. Collective discharge and suction lines are integrated in the pump.
- Low flow rate pulsation.

Field of application

- Chemical industry
- Petrochemical industry
- Refineries
- Oil and gas industry



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Technical data

Plunger Ø	Stroke volume	Theoretical pump capacity Q_{th} at a stroke rate n in rpm					Max. operating pressure	Efficiency at 100% pressure	Efficiency at 50% pressure	Standard type of valve
		120 [3]	145 [4]	175 [5]	200 [6] [6]	220 [7]				
mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	bar			
25	58.90	424	512	601	707	778	367	0.78	0.83	DN 10
26	63.71	459	554	650	765	841	339	0.78	0.83	DN 10
30	84.82	611	738	865	1,018	1,120	255	0.81	0.85	DN 15
36	122.15	879	1,063	1,246	1,466	1,612	177	0.84	0.87	DN 20
44	182.46	1,314	1,587	1,861	2,190	2,409	118	0.85	0.88	DN 20
60	339.29	2,443	2,952	3,461	4,072	4,479	64	0.90	0.92	DN 25
70	461.81	3,325	4,018	4,711	5,542	6,096	47	0.90	0.92	DN 32
80	603.19	4,343	5,248	6,152	7,238	7,962	36	0.90	0.92	DN 32

Note:

Abridged presentation of our complete product range. Other piston diameters (14 - 75 mm) on request.

Materials in Contact With the Medium

Dosing head complete			Manifold		
Dosing head	Diaphragm retaining screw	Diaphragm	Suction/pressure connector	Seal, manifold	
Stainless steel 1.4404	Stainless steel 1.4462	PTFE multi-layer diaphragm	Stainless steel 1.4571	Viton O-ring with seamless FEP jacket	

Ball valve DN 10

Suction/pressure connector	Seal valve/head	Valve ball	Valve seat	Valve housing
Stainless steel 1.4571	Stainless steel 1.4571	Al ₂ O ₃ ceramic	Stainless steel 1.4404	Stainless steel 1.4404

Plate valve DN 15 / DN 20 / DN 25 / DN 32

Suction/pressure connector	Seal valve/head	Valve plate	Valve seat	Valve housing
Stainless steel 1.4571	Stainless steel 1.4571	Stainless steel 1.4462	Stainless steel 1.4404	Stainless steel 1.4404

Further material versions and details available on request.

Motor and Gearbox Data

Motors and gearboxes from 7.5 to 15 kW are available for the Zentriplex product range. Further options and details available upon request.

Standard gear motor 7.5 kW, 9.2 kW, 11 kW, 15 kW	3 ph, IP 55	400/690V	50/60 Hz	Control range 1:5
Ex gear motor EExde IICT4 11 kW, 15 kW	3 ph, IP 65	400/690V	50/60 Hz	Control range 1:5
Standard external gearbox 11 kW...15 kW	IP 55			Version according to DIN/ISO standard flange
Standard external gearbox 11 kW...15 kW	IP 55			NEMA flange version
Ex gearbox 2 IIGD c,kT4/T120C external 11 kW...15 kW	IP 55			Version according to DIN/ISO standard flange
Ex gearbox 2 IIGD c,kT4/T120C external 11 kW...15 kW	IP 55			NEMW flange version

■ SYDNEY OFFICE

Unit 4, 4 Narabang Way,
BELROSE NSW 2085
P 02 9450 0995
sales@prominentfluid.com.au

■ QUEENSLAND OFFICE

Unit 1, 68 Murdoch Circuit,
ACACIA RIDGE QLD 4110
P 07 3213 1900
pfcqld@prominentfluid.com.au

■ VICTORIA OFFICE

Unit 1/21-22 National Drive
HALLAM VIC 3803
P 03 8795 7430
pfcvic@prominentfluid.com.au

■ WESTERN AUSTRALIA OFFICE

2/158 Francisco Street
BELMONT WA 6104
pfcwa@prominentfluid.com.au